

Application No. 09/997,061
Applicants: Achim Franck et al.
Amendment in Response to Office Action dated May 20, 2003

Amendments to the Specification

Please cancel the second full paragraph at lines 12-13 of page 4, and substitute the following new paragraphs:

-- The object is achieved by means of a redetachable self-adhesive device:

a) whose reverse face is bonded with a strip of a double-sidedly adhering adhesive sheet in such a way that one end of the adhesive sheet projects beyond the device as a grip tab, b) the adhesive sheet is such that the bond made with it is redetachable by stretching pulling on the grip tab of the strip in the direction of the bond plane, wherein c) on its reverse face (2) the device (1), in the region (3A, 3B) situated opposite the grip tab (6) of the adhesive sheet strip (5), is designed in such a way that it has a distance (V) from the grip tab (6).

In another embodiment, the distance (V) of the redetachable self-adhesive device is 0.1-1.5 mm, in particular 0.2-1 mm.

In another embodiment, the distance (V) ascends toward an edge (4, 4') over which the grip tab (6) protrudes. The edge (4, 4') beyond which the grip tab (6) projects has a low static friction and sliding friction, in particular a low-energy polymer surface.

In another embodiment, the distance (V) rises continuously or discontinuously in the form of steps, wherein the distance (V) rises continuously in the formation of an angle (α) of 5°-

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120°, in particular 10°-90°, between the area of the region (3A, 38) which lies opposite the grip tab (6) and that area of the grip tab (6) which is opposite thereto.

In another embodiment, the breadth of the region exhibiting the distance (V) is equal to or greater than at least the breadth of the strip (5), and measures 1-20 mm, in particular 2-12 mm, in its depth (W).

In another embodiment, the region (3A, 38) which lies opposite the grip tab (6) is additionally roughened, and in particular has an average roughness R_a of 0.4-25 μm , in particular 2- 20 μm . The region (3A, 38) exhibiting the average roughness R_a has an average depth of roughness R_z of 1-150 μm , in particular 2-100 μm . The region (3A, 38) exhibiting the average roughness R_a is reduced together with the device (1) by injection molding, or is produced in a subsequent workstep, in particular by etching, grinding, embossing or spark erosion.

In another embodiment, the reverse face (2) of the device (1) has alternative edges (4, 4') by way of which the adhesive sheet strip (5) may be stuck on with its grip tab (6) projecting beyond said edges, there being provided corresponding regions (3A, 38) having in each case a distance (V).

In another embodiment, the device (1) besides the adhesive sheet strip (5), there are

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spacers (8A, 8B, 8C) whose height is less than the thickness of the adhesive sheet strip (5).

In another embodiment, the adhesive sheet strip (5) is elastically or plastically extensible with or without a carrier in between.

In another embodiment, the adhesion of the adhesive sheet strip (5) is less than the cohesion, the adhesion largely disappears when the sheet is extended, and the ratio of peel force to tear load is at least 1 :2.0, the adhesive sheet being based on thermoplastic rubber and tackifying resins, with high elasticity and low plasticity.

In another embodiment, the reverse face of the adhesive sheet strip (5) is lined with a release laminate, such as a siliconized release paper or a release film.

In another embodiment, the device has fixing means such as hooks, latching projections or the like, located on its front face or laterally.

The invention also contemplates using the device for redetachable self-adhesive fastening and redetachment by pulling on the grip tab of the strip in the direction of the bond plane - -